

Periodic Table of Elements

Z

mass

Symbol

Name

black: natural
gray: man-made

Alkali Metal

Alkaline Earth Metal

Metal

Metalloid

Non-metal

Halogen

Noble Gas

Lanthanide/Actinide

1

1.0079

H

Hydrogen

3

6.941

Li

Lithium

11

22.990

Na

Sodium

19

39.098

K

Potassium

37

85.468

Rb

Rubidium

55

132.91

Cs

Caesium

87

223

Fr

Francium

2

4.0025

He

Helium

4

9.0122

Be

Beryllium

12

24.305

Mg

Magnesium

20

40.078

Ca

Calcium

38

87.62

Sr

Strontium

56

137.33

Ba

Barium

88

226

Ra

Radium

5

10.811

B

Boron

13

26.982

Al

Aluminium

31

69.723

Ga

Gallium

6

12.011

C

Carbon

14

28.086

Si

Silicon

32

72.64

Ge

Germanium

7

14.007

N

Nitrogen

15

30.974

P

Phosphorus

33

74.922

As

Arsenic

8

15.999

O

Oxygen

16

32.065

S

Sulphur

34

78.96

Se

Selenium

9

18.998

F

Fluorine

17

35.453

Cl

Chlorine

35

79.904

Br

Bromine

10

20.180

Ne

Neon

18

39.948

Ar

Argon

36

83.8

Kr

Krypton

13

26.982

Al

Aluminium

31

69.723

Ga

Gallium

49

114.82

In

Indium

67

164.93

Ho

Holmium

85

210

At

Astatine

103

262

Lr

Lawrencium

14

28.086

Si

Silicon

32

72.64

Ge

Germanium

50

118.71

Sn

Tin

68

167.26

Er

Erbium

86

222

Rn

Radon

15

30.974

P

Phosphorus

33

74.922

As

Arsenic

51

121.76

Sb

Antimony

69

168.93

Tm

Thulium

87

223

Fr

Francium

16

32.065

S

Sulphur

34

78.96

Se

Selenium

52

127.6

Te

Tellurium

70

173.04

Yb

Ytterbium

88

226

Ra

Radium

17

35.453

Cl

Chlorine

35

79.904

Br

Bromine

53

126.9

I

Iodine

71

174.97

Lu

Lutetium

89

227

Ac

Actinium

18

39.948

Ar

Argon

36

83.8

Kr

Krypton

54

131.29

Xe

Xenon

72

178.49

Hf

Hafnium

90

232.04

Th

Thorium

19

39.098

K

Potassium

37

85.468

Rb

Rubidium

55

132.91

Cs

Caesium

73

180.95

Ta

Tantalum

91

231.04

Pa

Protactinium

21

44.956

Sc

Scandium

39

88.906

Y

Yttrium

57

138.91

La

Lanthanum

75

186.21

Re

Rhenium

93

237

Np

Neptunium

22

47.867

Ti

Titanium

40

91.224

Zr

Zirconium

58

140.12

Ce

Cerium

76

190.23

Os

Osmium

94

244

Pu

Plutonium

23

50.942

V

Vanadium

41

92.906

Nb

Niobium

59

140.91

Pr

Praseodymium

77

192.22

Ir

Iridium

95

243

Am

Americium

24

51.996

Cr

Chromium

42

95.94

Mo

Molybdenum

60

144.24

Nd

Neodymium

78

195.08

Pt

Platinum

96

247

Cm

Curium

25

54.938

Mn

Manganese

43

96

Tc

Technetium

61

145

Pm

Promethium

79

196.97

Au

Gold

97

247

Bk

Berkelium

26

55.845

Fe

Iron

44

101.07

Ru

Ruthenium

62

150.36

Sm

Samarium

80

200.59

Hg

Mercury

98

251

Cf

Californium

27

58.933

Co

Cobalt

45

102.91

Rh

Rhodium

63

151.96

Eu

Europium

81

204.38

Tl

Thallium

99

252

Es

Einsteinium

28

58.693

Ni

Nickel

46

106.42

Pd

Palladium

64

157.25

Gd

Gadolinium

82

207.2

Pb

Lead

100

257

Fm

Fermium

29

63.546

Cu

Copper

47

107.87

Ag

Silver

65

158.93

Tb

Terbium

83

208.98

Bi

Bismuth

101

258

Md

Mendelevium

30

65.39

Zn

Zinc

48

112.41

Cd

Cadmium

66

162.50

Dy

Dysprosium

84

209

Po

Polonium

102

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No

Nobelium

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Strontium

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Ba

Barium

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183.84

W

Tungsten

92

238.03

U

Uranium

39

88.906

Y

Yttrium

57

138.91

La

Lanthanum

75

186.21

Re

Rhenium

93

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Np

Neptunium

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91.224

Zr

Zirconium

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Cerium

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Os

Osmium

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Pu

Plutonium

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92.906

Nb

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Americium

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Mo

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195.08

Pt

Platinum

96

247

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Curium

43

96

Tc

Technetium

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145

Pm

Promethium

79

196.97

Au

Gold

97

247

Bk

Berkelium

44

101.07

Ru

Ruthenium

62

150.36

Sm

Samarium

80

200.59

Hg

Mercury

98

251

Cf

Californium

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Rhodium

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Eu

Europium

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204.38

Tl

Thallium

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